Summary of the Work Plan for Removal Action Preconstruction Work (revised June 20, 2014) Approved by EPA

This fact sheet summarizes the revised June 2014 Work Plan for Removal Action Preconstruction Work at the West Lake Landfill Superfund site. It is provided to the local community by Technical Assistance Services for Communities (TASC) contractors. Its contents do not necessarily reflect the policies, actions or positions of EPA.

The work plan addresses the proposed installation of an isolation barrier between Bridgeton Landfill waste and radioactive debris in operable unit (OU) 1 of the West Lake Landfill Superfund site. The barrier will protect OU1 from the subsurface smoldering event (fire) presently burning in the Bridgeton Landfill.

The work plan does not address the isolation barrier's exact location or the construction process. These decisions still need to be made. The plan focuses on preconstruction work to be done to prepare for excavating soil and placing the isolation barrier.

Isolation Barrier Design

The work plan suggests that the barrier's design will likely consist of shallow bench excavation followed by a vertical trench excavation for installation of the barrier. The shallow excavation would provide a level working surface for construction of the barrier and drainage.

Estimated volume of wastes removed is 40,000 to 75,000 bank cubic yards (bcy) to prepare the working platform and 50,000 and 95,000 bcy for the isolation barrier. Waste material will be placed into an existing landfill area on site.

The work plan addresses:

1. Potential areas for storing and placing excavated wastes. This includes:
   - Updating the evaluation of waste material volumes to be relocated.
   - Identifying and mapping potential waste relocation areas, the size of the areas and the expected volumes of wastes.

   (The size and volume capacity of each area will be decided when the isolation barrier is designed.)
2. Clearing of vegetation and surface obstacles in the way of installing the isolation barrier or the proposed waste staging/relocation areas, including:
   - Clearing and relocation work to construct a barrier for controlling windblown litter, and to install air monitoring and sampling stations and associated access pathways. Prior to OU1 clearing activities, a gamma scan of the area will be done to protect workers from excessive radiation.
3. Development of a bird hazard mitigation and monitoring plan, including:
   - Reducing bird attraction by minimizing trash exposure during borehole drilling, if required, and by placing waste in roll-off containers. Containers will be tarped for transport to an on-site transfer station.
   - Monitoring of bird activity and hazards.
   - Controlling increased bird activity using measures determined by a qualified wildlife biologist.

4. Development of a monitoring plan for air:
   - Implementing an air monitoring network for Areas 1 and 2 to collect baseline data, including 13 on-site air monitoring locations (Figure 1). Air monitoring locations will be adjacent to locations where radiation-impacted material (RIM) has previously been identified. All 13 stations will be monitored and sampled for particulates (dust). Collected particulates will be sent to a laboratory for analysis of radioactive particles (alpha and beta particles). Five of the 13 stations will be monitored for volatile organic compounds. EPA is also implementing an off-site air monitoring plan, which is separate from this work plan.

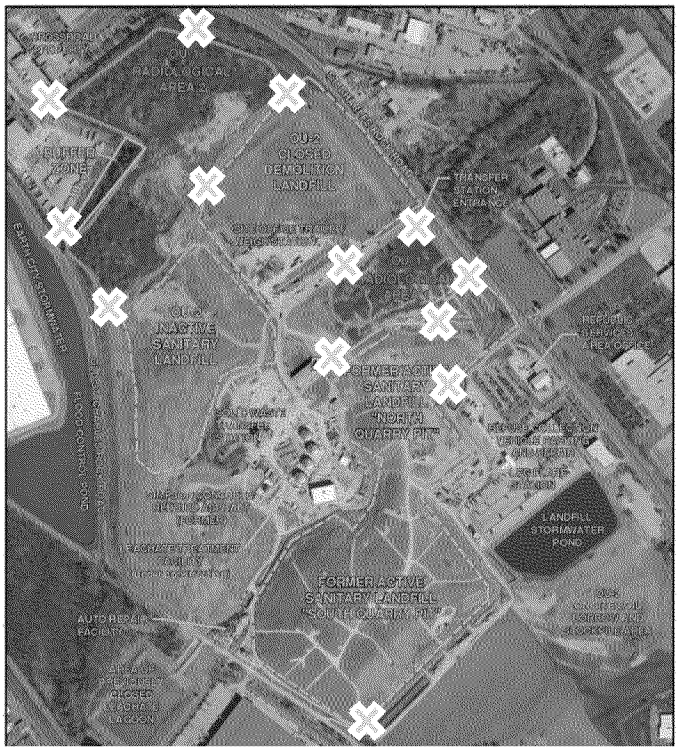

Figure 1: Locations of on-site air monitoring stations marked with an "X" (adapted from Preconstruction Work Plan Figure 3)

5. Installation of a litter control barrier, including:
   - Installing temporary fencing along St. Charles Rock Road (10 feet high, total length of about 900 feet).
   - Placing four movable litter control units (a netting-lined steel frame 15 feet high by 20 feet long) within 50 feet of the active excavation area.
   - Visual inspection and removal of litter from the litter control fencing and any accessible litter that has blown off site.
   - If necessary, placement of tarps or soil cover material to minimize windblown trash. Details will be developed as part of the isolation barrier design.

Proposed Schedule for Preconstruction Activities (Table 2 in the Preconstruction Work Plan)

Task	Schedule
Identification of waste staging, management and relocation areas	Within 30 days of EPA approval of work plan/authorization to proceed
Clearing of vegetation and surface obstacles from barrier alignment and waste relocation areas	In conjunction with isolation barrier construction activities
Bird Hazard Monitoring and Mitigation Plan for Ongoing Landfill Work	Finalize plan within 30 days of EPA approval of the work plan and/or receipt of EPA comments on the draft plan included in the work plan
Air Monitoring and Sampling Plan	Finalize plan within 30 days of EPA approval of the work plan and/or receipt of EPA comments on the draft plan included in the work plan
Litter fence installation	Start procurement and installation within 14 days of EPA approval of the work plan and/or EPA approval of the fence design and finish within 42 days of EPA approvals